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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,700	09/30/2004	Kevin S. Petrarca	FIS920040258US1	5699
32074	7590	03/20/2008	EXAMINER	
INTERNATIONAL BUSINESS MACHINES CORPORATION			NGUYEN, TRAM HOANG	
DEPT. 18G			ART UNIT	PAPER NUMBER
BLDG. 300-482			2818	
2070 ROUTE 52				
HOPEWELL JUNCTION, NY 12533				
MAIL DATE		DELIVERY MODE		
03/20/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief	Application No.	Applicant(s)
	10/711,700	PETRARCA ET AL.
	Examiner	Art Unit
	TRAM H. NGUYEN	2818

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 29 February 2008 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

a) The period for reply expires 3 months from the mailing date of the final rejection.

b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because

(a) They raise new issues that would require further consideration and/or search (see NOTE below);

(b) They raise the issue of new matter (see NOTE below);

(c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or

(d) They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. Applicant's reply has overcome the following rejection(s): _____.

6. Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____.

Claim(s) objected to: _____.

Claim(s) rejected: 1,4,5,13 and 15.

Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See Continuation Sheet.

12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). _____

13. Other: _____.

/Steven Loke/

SPE AU 2818

Continuation of 11. does NOT place the application in condition for allowance because:

With respect to the traversal is on the grounds that "the deficiency in Andricacos and Noriyoshi for a teaching of an impure copper seed layer", the Examiner totally disagrees with the argument. Andricacos has been silent about a copper seed layer material (5) has a content of impurity; thereby the applicant alleges that the copper seed layer (5 in fig. 6 of Andricacos) is a pure copper layer.

However, the applicant should note that the industry pure copper material contents typically 99.999% pure copper and somewhat of impurities (see pending Specification: par.[0007], lines 1-2). Therefore, the copper seed layer (5 in Andricacos) contents a small amount of impure copper.

Noriyoshi explicitly teaches similar copper interconnect structure (see fig. 1B-1C) having an impure copper seed layer contents 0.5% wt of Sn as the impurity. Since both references teach the same device structure, there would be a suggestion or a motivation to substitute the impure copper seed layer of Noriyoshi to compensate for the Andricacos' deficiencies.

The second transversal is on the grounds that "the material composition of said impurity copper seed layer is substantially the same as material composition of said impure copper fill", it is again found unpersuasive because it is not just because the word "substantially" is not only a broad word but also found not specific limitation enough. Since the material compositions of impure copper seed layer and the impure copper fill layer comprising a copper source as a main source. Thereof, their material compositions are considered as substantially the same.

The applicant newly amended portion of claims 1 and 13 "material composition of said impure copper seed is the same as material composition of said impure copper fill" raises a new matter because par.[0020] of the pending Specification disclose the composition of said impure copper seed is slightly different with the material composition of said impure copper fill. But there is no support in the pending specification mention about the composition of the impure copper seed layer is the same as the impure copper fill layer.